



(REFERENCE COPY - Not for submission)

FCC Form 399: Incentive Auction Relocation Reimbursement Fund System

File Number: **0000026889** | FRN: **0003471331** | Facility ID: **34470** |Repack Channel: **12 (High VHF)** | Entity: **Broadcaster** | Filing Status:**Submitted**Date Submitted: **07/07/2017**

Applicant Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
KGO TELEVISION, INC. Doing Business As: KGO TELEVISION, INC.	77 WEST 66TH STREET, 16TH FLR ATTN: JOHN W. ZUCKER, ESQ. NEW YORK, NY 10023 United States	+1 (212) 456-7777	john.w.zucker@abc.com	Corporation

Reimbursement Contact Information

Reimbursement Contact Name and Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer Contact Information

Preparer Contact Name and Information

Applicant	Address	Phone	Email
The Preparer is same as the reimbursement contact.			

**Broadcaster
Information
and
Transition
Plan**

Question		Response
Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.		Yes
Briefly describe transition plan		KGO is being moved from channel 7 to channel 12. The plan is to bring up the new aux antenna on channel 7 and operate via the aux during the swap of the main antenna. We will then transition to channel 12 on the new main antenna. See Plan attached.

Transmitters

Section	Question	Response
Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

**Auxiliary
Transmitter****Add Transmitter Information**

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Platinum I
	Year	2008
	Type	Solid state
	IOT Power Type	
	Description	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	16.6 kw
	Other Transmitter Type	

**Auxiliary
Transmitter****New Transmitter Costs**

Section	Question	Response
New Transmitter	Use	Auxiliary (Backup)
	Description of Use	Backup
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	VAX24TE
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	19.2 kw
	Other Transmitter Type	
	Justification for New Transmitter	The existing aux transmitter is a channel 7 specific solid state transmitter that can't be re-tuned

**Auxiliary
Transmitter****Other Transmitter Costs**

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No

	Transformer (480V)	No
	Power	
	Rigid Conduit and Wiring	No
	Size	
	Length	
	Other Electrical Service	No
	Description	
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	50 tons
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1500.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

Auxiliary Transmitter **Other Transmitter Cost Not Listed**
Information not provided.

**Primary
Transmitter**

Add Transmitter Information

Section	Question	Response
Existing Transmitter Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	
	Ownership	Owned
	Owner	
	Site	
	Is this transmitter currently shared with another station?	No
	Is this transmitter currently in operating condition?	Yes
Existing Transmitter Manufacturer and Type	Manufacturer	
	Model	Platinum I
	Year	2008
	Type	Solid state
	IOT Power Type	
	Description	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	16.6 kw
	Other Transmitter Type	

**Primary
Transmitter**

New Transmitter Costs

Section	Question	Response
New Transmitter	Use	Primary (Main)
	Description of Use	
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Manufacturer	
	Model	VAX24TE
	Transmitter Type	Solid state
	IOT Power Type	
	Other	
	Power capacity	
	Solid State Cooling	Air
	Solid State Power Capacity	19.2 kw
	Other Transmitter Type	
	Justification for New Transmitter	Current Transmitter is a channel 7 specific solid state transmitter and cannot be re-tuned

**Primary
Transmitter**

Other Transmitter Costs

Section	Question	Response
Electrical Service	Service Entrance (3 phases 800A 208V)	No
	Switchgear (industrial 800 amp)	No

	Transformer (480V)	No
	Power	
	Rigid Conduit and Wiring	No
	Size	
	Length	
	Other Electrical Service	No
	Description	
HVAC Service	Does the replacement transmitter require HVAC Service?	Yes
	Type	Cooling Only
	Size	50 tons
	Other Size	
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leasehold improvement?	Yes
	Size	1500.0 square feet
Channel 14 Costs	Is an RF Consulting Engineer needed?	
	Is a channel 14 Mask Filer needed?	
	Is additional field engineering time needed?	
	Number of Days	

Primary Transmitter

Other Transmitter Cost Not Listed

Name	Description
Project Managment	P&O, General Conditions, Onsite Supervision
Abatement	Asbestos Removal
Seismic	Earthquake Safety Code
Hygienist	Worker Safety

Paint	Paint
Electrical	General Electrical work
FireStop	Fire safety Requirement
KGO Site Survey	Gates Air Basic Site Survey
Transmitter De-Install	Remove (2) Platinum Transmitters model PTCD40P4
Demo	HVAC Ductwork removal
Ductwork Scaffold	HVAC Ductwork Removal

Antennas

Section	Question	Response
Antenna Related Expenses	Do you have antenna related expenses?	Yes

**Auxiliary
Antenna****Existing Antenna Information**

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Auxiliary (Backup)
	Description of Use	Backup antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing antenna shared with another station or stations?	No
	Is the existing antenna directional?	Yes
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Class A
	Mounting	Top-mount single
	Antenna position in stack	Not in Stack
	Polarization	Horizontal
	Type	Other Type
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	Custom
	ERP: (Effective Radiated Power)	72.00 kW

Manufacturer	
Model	THV-5A7-C170
Year	2008

Auxiliary Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Auxiliary (Backup)
	Description of Use	Backup Antenna
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	Yes
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Class A
	Mounting	Side-mount
	Antenna position in stack	Not in Stack
	Polarization	Circular
	Type	Broadband Panel
	Number of Stations Supported	2
	Number of Panels/Bays	8
	Lower Limit	174.00 MHz
	Upper Limit	216.00 MHz
	Design power capacity in use	50.0 %
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	23.80 kW
	Manufacturer	

Model	Custom
Year	2018
Justification for New Antenna	Needed to support new channel assignment.

Auxiliary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	Yes
	Type	New
	Number of channels supported	2
	Frequencies of channels supported	upper and lower frequency
	Frequency	174.0 MHz - 216.0 MHz
	Do you need a combiner output splitter /switcher for dual feed lines?	Yes
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Broadband
	Feed Line Size	8 3/16 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	Yes
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

**Auxiliary
Antenna**

Other Antenna Cost Not Listed

Name	Description
Removal of existing antenna	Estimated cost to remove current aux antenna
Fill Holes	(1) Floor and Wall
Core Drill Holes	(3)
Custom Pipe Mount	Fabrication
Install and Test Combiner	Install and Test Aux Combiner
New Aux antenna installation	Installation cost for new antenna
RF Testing Of Line	Testing cost of the new line

Primary Antenna

Add Antenna Information

Section	Question	Response
Existing Antenna Description	Type of change	Purchase New
	Antenna Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is this antenna currently shared with any other stations?	No
	Is this antenna directional?	No
	Is antenna in operating condition?	Yes
	Is antenna located on or in close proximity to an antenna farm?	Yes
Existing Antenna Manufacturer and Type	Class	Class A
	Mounting	Top-mount stacked
	Antenna position in stack	Top
	Polarization	Circular
	Type	Other Type
	Number of Stations Supported	N/A
	Number of Panels	N/A
	Design power capacity in use	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Other Antenna Type	Tesla Coil Full CP
	ERP: (Effective Radiated Power)	23.80 kW

Manufacturer	
Model	TCL-6A7(S)
Year	2008

Primary
Antenna

New Antenna Costs

Section	Question	Response
New Antenna Description	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Ownership	Owned
	Owner	N/A
	Is antenna shared?	No
	Is antenna directional?	No
	Will antenna be located on or in close proximity to an antenna farm?	Yes
New Antenna Manufacturer and Type	Class	Class A
	Mounting	Top-mount stacked
	Antenna position in stack	Top
	Polarization	Elliptical
	Type	Slotted coaxial
	Number of Stations Supported	N/A
	Number of Panels/Bays	N/A
	Lower Limit	N/A
	Upper Limit	N/A
	Design power capacity in use	N/A
	Other Antenna Type	N/A
	ERP: (Effective Radiated Power)	23.80 kW
	Manufacturer	

Model	THV-6A12 /CP-R O4
Year	2017
Justification for New Antenna	The current antenna is a channel 7 tuned antenna and will not work for the post transition channel (12).

Primary Antenna

Other Antenna Costs

Section	Question	Response
Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
	Type	
	Number of channels supported	N/A
	Frequencies of channels supported	N/A
	Frequency	N/A
	Do you need a combiner output splitter /switcher for dual feed lines?	N/A
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
	Broadband or Single Channel?	Single Channel
	Feed Line Size	6 1/8 inches
Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	Yes

Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes
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**Primary
Antenna**

Other Antenna Cost Not Listed

Name	Description
RF Test Complex	RF Test
Demo	Old Antenna
Install	New Antenna
Fill Holes	In floor and walls
Core Drill Holes	(2)

**Transmission
Line**

Section	Question	Response
Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

**Auxiliary
Transmission
Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Auxiliary (Backup)
	Description of Use	Backup antenna
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	8 3/16 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	800 feet per run

**Auxiliary
Transmission
Line**

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Auxiliary (Backup)
	Description of Use	Backup Antenna feed
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	3 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	1000 feet per run
	Justification for New Transmission Line	The Aux antenna needs to move, and new transmission line is required for the new location.

**Auxiliary
Transmission
Line**

Other Transmission Line Expenses Not Listed

Name	Description
Aux Line Install	Aux Antenna line installation
Demo Old Aux Line	Remove old Aux Line

**Primary
Transmission
Line**

Existing Transmission Line

Section	Question	Response
Existing Transmission Line Description	Type of change	Purchase New
	Use	Primary (Main)
	Description of Use	N/A
	Ownership	Owned
	Owner	N/A
	Site	N/A
	Is the existing transmission line shared with another station or stations?	No
	Is Transmission Line in operating condition?	Yes
Existing Transmission Line Manufacturer and Type	Manufacturer	
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	1100 feet per run

Primary
Transmission
Line

New Transmission Line

Section	Question	Response
New Transmission Line Costs	Use	Primary (Main)
	Description of Use	N/A
	Change Type	Purchase New
	Is this a request for upgraded equipment?	No
	Type	Rigid
	Diameter	6 1/8 inches
	Segment Length	20'
	Other Segment Length	
	Number of parallel runs	1
	Length	1300 feet per run
	Justification for New Transmission Line	The current main line will not accommodate the output power levels of the post transition transmitter.

Primary
Transmission
Line

Other Transmission Line Expenses Not Listed

Name	Description
Main Line Install	Installation of new line for main antenna
Demo Old Main Line	Remove Old Main Line

**Tower
Equipment
And
Rigging
Costs**

Section	Question	Response
Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

**Primary
Tower**

Existing Tower

Section	Question	Response
Existing Tower Description	Type of change	Modify Existing
	Tower Use	Primary (Main)
	Description of Use	N/A
	Ownership	Leased
	Is this tower consider Complex?	Candelabra
	Is this tower currently shared with any other stations?	Yes
	One or more FM, AM or TV radio broadcaster(s)	Yes
	Others Types of Users	No
	Is tower documented for structural analysis?	Yes
	Is tower compliant with Rev G?	Unknown
Existing Tower Structure Registration	Do you have a tower registration number?	Yes
	ASR Number	1001289
Coordinates (NAD83 (North American Datum of 1983))	Latitude (NAD83)	37° 45' 19.0" N-
	Longitude (NAD83)	122° 27' 10.0" W-
	Overall Structure Height	976.69 feet
	Support Structure Height	779.85 feet
	Ground Elevation Above Mean Sea Level (AMSL)	833.98 feet

	Structure Type	TOWER - Free Standing or Guyed Structure
	Tower Owner	SUTRO TOWER INC
	Date Constructed	03/27/1998

**FM, AM or TV radio
broadcasters. Facility ID's,
Call Signs and Services of
other broadcast stations with
whom the tower is shared**

Facility ID	Call Sign	Service
65526	KRON-TV	DTV

Primary Tower

Tower Modification Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for tower with candelabra
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower

Tower Rigging Costs

Section	Question	Response
Tower Rigging Costs	Complex Tower	Candelabra
Helicopter Services Required	Are helicopter services required?	No

Primary
Tower

Other Tower Expenses Not Listed

Name	Description
Tower Mapping	Tower Mapping

Outside Professional Services Costs

Section	Question	Response	
Outside Project Management Services	Do you require outside project management services?	Yes	
	Number of Hours	500	
	Explanation	Project management for shared tower location	
Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes	
	Prepare engineering section of Form FCC Construction Permit Application	Yes	
	For Auxiliary Facility	N/A	
	For Main Facility	Yes	N /A
	Prepare engineering section of Form FCC License to Cover Application	Yes	
	For Auxiliary Facility	Yes	
	For Main Facility	Yes	
	Prepare request for Special Temporary Authority	Yes	
	Quantity	1	
	Do you have Distributed Transmission System engineering services?	N/A	
	Critical Facility	N/A	
	Terrain-Shielded Facility	N/A	
Attorney and Other Outside Consulting Services	Prepare and file Form FCC Construction Permit Application	Yes	
	For Auxiliary Facility	Yes	
	For Main Facility	Yes	
	Prepare and file Form FCC License to Cover Application	Yes	

	For Auxiliary Facility	Yes
	For Main Facility	Yes
	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	Yes
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	No
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	Yes
	RF exposure measurements	Yes
	Additional Field Engineering Service	Yes
	Number of Days	20
	Justification	This is a shared location that requires coordination.

Outside Professional Services Costs

Other Professional Services Expenses Not Listed

Name	Description
Architectural Plans	Sutro Architectural plans, building mapping
Building Permits	Estimated cost for building permits

Field Testing and Engineering	Testing at Sutro
Legal Fees Multi Station Project Ctrl	Project cost
Medical Facilites DTV Notices	Medical Notices
Neighborhood RF Survey	Surrounding neighborhood RF Studies
Permit Public Relations	Public Relations
Project Management	Sutro Tower
RF Exposure Reports	RF Exposure Reports
Sutro Legal Fees	Legal Fees at Sutro
Update Architechatural Plans	Plans with new TL locations
Alternate Site Study	Engineering, antenna, designs, Architectural, budgeting, etc

Other Expenses

Section	Question	Response
AM Pattern Disturbance	Is an Impact Study needed?	No
	Is Remediation needed?	No
Facility Expenses	Name	N/A
	Other Distributed Transmission System Expenses Not listed	N/A
	Name	N/A
	Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
Permit and Filing Costs	Local Zoning	Yes
	Non-zoning permits	Yes
	BLM or NFS Coordination	Yes
	FCC Construction Permit Minor Change	Yes
	FCC License to Cover Application	Yes
	FCC Special Temporary Authority Application	Yes
Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
	Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
	Does this relocation require Equipment Storage?	Yes
	Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
	Does this relocation require MVPD Notification of a Channel Change?	Yes

**Other
Expenses**

Other Expenses Not Listed

Name	Description
Disposal	Remove old HW, fill concrete hole, patch roof, etc
Fork Lift Rental	Fork Lift
KFOG-FM Equipment	Equipment
KFOG-FM Relocation	Relocation
KFOG-FM Testing	Testing
Post Assignmnet Antenna Studies	Application data, vertical sketches for structural engineering
Preliminary TL Parts List	Reconfiguration of combiners
RF Switch gear	New RF Switch gear to accommodate change to channel 12
Sales Tax	Local Sale Tax
Special Inspection	Welding & Bolts
VSWR Monitoring	Tower worker antenna lockout, Replaces Symphony

Cost Information

Transmitters

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmitter VAX24TE	\$1,162,455.00	\$1,231,102.92		\$0.00	
Project Managment	<i>\$233,636.00</i>	\$233,636.00	See Wadleigh KGO Repacking Estimate Estimated cost Includes P&O, General Conditions and Supervision	N/A	N/A
Other -- Building Addition Size: 1500.0	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
High VHF - Air Cooled Solid State Transmitter 16.6 . 20.7 kW	\$500,000.00	\$522,686.92	See KGO VAXTE-24 Final Main PDF	N/A	N/A
50 Ton system	\$164,000.00	\$209,961.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
Hygienist	<i>\$1,600.00</i>	\$1,600.00	See WGI Repack Values Spreadsheet	N/A	N/A

Paint	<i>\$6,780.00</i>	\$6,780.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
KGO Site Survey	<i>\$7,502.00</i>	\$7,502.00	See: KGO Site Survey_Gates	N/A	N/A
Electrical	<i>\$160,000.00</i>	\$160,000.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
Abatement	<i>\$3,967.00</i>	\$3,967.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
Seismic	<i>\$9,300.00</i>	\$9,300.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
FireStop	<i>\$3,860.00</i>	\$3,860.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
Demo	<i>\$12,140.00</i>	\$12,140.00	See WGI Repack Values Spreadsheet	N/A	N/A
Ductwork Scaffold	<i>\$5,572.00</i>	\$5,572.00	See Wadleigh KGO Repacking Estimate	N/A	N/A

Transmitter De-Install	<i>\$54,098.00</i>	\$54,098.00	See: KGO De Installation quote KGO. The estimated cost for disposal is an additional \$10,000.	N/A	N/A
Auxiliary Transmitter VAX24TE	\$664,000.00	\$725,539.27		\$0.00	
High VHF - Air Cooled Solid State Transmitter 16.6 . 20.7 kW	\$500,000.00	\$515,578.27	See KGO VAXTE-24 Final ALT PDF	N/A	N/A
50 Ton system	\$164,000.00	\$209,961.00	See Wadleigh KGO Repacking Estimate	N/A	N/A
Other -- Building Addition Size: 1500.0	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Sub-total	\$1,826,455.00	\$1,956,642.19	N/A	\$0.00	N/A
Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information

Antennas

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Antenna THV-6A12/CP-R O4	\$614,013.00	\$611,093.00		\$0.00	
Sweep test of existing antenna	\$6,400.00	\$6,400.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Elbow complex, single channel, at antenna input, per 6 1/8. feedline (if needed)	\$11,700.00	\$8,780.00	N/A	N/A	N/A
High VHF - Lower Power Top Mount Class A basic slot antenna elliptically or circularly polarized	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Install	<i>\$84,137.00</i>	\$84,137.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

Demo	<i>\$84,137.00</i>	\$84,137.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
High VHF - Lower Power, Top Mount, Class A, basic slot antenna, 24 kW input, elliptically or circularly polarized	<i>\$399,234.00</i>	\$399,234.00	Current Channel 7 specific antenna cannot be retuned to channel 12 Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
RF Test Complex	<i>\$6,120.00</i>	\$6,120.00	N/A	N/A	N/A
Fill Holes	<i>\$12,335.00</i>	\$12,335.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

Core Drill Holes	<i>\$9,950.00</i>	\$9,950.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Auxiliary Antenna Custom	\$388,995.00	\$192,358.00		\$0.00	
Elbow complex, broadband, at antenna input, per 8 3/16. feedline (if needed)	\$18,000.00	\$5,390.00	N/A	N/A	N/A
Sweep test of existing antenna	\$6,400.00	\$3,060.00	N/A	N/A	N/A
Removal of existing antenna	<i>\$10,133.00</i>	\$10,133.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
New combiner, cost per channel (without antenna)	\$80,000.00	\$0.00	Combiner estimate for channel 7 and 12	N/A	N/A

High VHF - Lower Power, Side Mount, Class A, broadband panel, 8 bay,, 24 kW input, elliptically or circularly polarized	<i>\$69,775.00</i>	\$69,775.00	Overall FCC Criteria Cost Analysis PDF. 1 /2cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Custom Pipe Mount	<i>\$20,000.00</i>	\$20,000.00	Overall FCC Criteria Cost Analysis PDF. 1/2 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Combiner output splitting /switching for dual feed lines, if applicable	\$120,000.00	\$19,313.00	Overall FCC Criteria Cost Analysis PDF. 1/2 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Fill Holes	<i>\$1,236.00</i>	\$1,236.00	Overall FCC Criteria Cost Analysis PDF. 1/2 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

Core Drill Holes	<i>\$7,463.00</i>	\$7,463.00	Overall FCC Criteria Cost Analysis PDF. 1/2 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Install and Test Combiner	<i>\$9,180.00</i>	\$9,180.00	Overall FCC Criteria Cost Analysis PDF. 1/2 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
New Aux antenna installation	<i>\$43,748.00</i>	\$43,748.00	Overall FCC Criteria Cost Analysis PDF. 1 /2cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
RF Testing Of Line	<i>\$3,060.00</i>	\$3,060.00	Overall FCC Criteria Cost Analysis PDF. 1 /2cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Sub-total	\$1,003,008.00	\$803,451.00	N/A	\$0.00	N/A

Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A
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Components

Information not provided.

Cost Information

Transmission Line

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in *italics*).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Transmission Line	\$697,534.00	\$763,350.00		\$0.00	
Rigid Transmission Line - copper, 6 1/8"	\$249,600.00	\$315,416.00	The current main line will not accommodate the output power levels of the post transition transmitter. See Sutro Tower Repacking Estimate Pkg PDF	N/A	N/A
Main Line Install	<i>\$298,623.00</i>	\$298,623.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Demo Old Main Line	<i>\$149,311.00</i>	\$149,311.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Auxiliary Transmission Line	\$278,449.00	\$298,898.00		\$0.00	

Demo Old Aux Line	<i>\$60,000.00</i>	\$60,000.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Aux Line Install	<i>\$119,449.00</i>	\$119,449.00	Overall FCC Criteria Cost Analysis PDF. 1/2cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Rigid Transmission Line - copper, 3 1/8"	\$99,000.00	\$119,449.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Sub-total	\$975,983.00	\$1,062,248.00	N/A	\$0.00	N/A
Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information

Tower Equipment and Rigging Costs

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Primary Tower TOWER	\$832,877.00	\$1,079,659.00		\$0.00	
Complex Tower (includes, for example, those with candelabras and/or stacked antennas)	\$400,000.00	\$440,000.00	Overall FCC Criteria Cost Analysis PDF. 1/3 cost Sutro Tower Repacking Estimate pkg PDF. spreadsheet line item 51 and 54	N/A	N/A
Tower Mapping	<i>\$13,877.00</i>	\$13,877.00	Overall FCC Criteria Cost Analysis PDF. 1/6 cost Sutro Tower Repacking Estimate pkg PDF.	N/A	N/A
Major tower reinforcement /modifications	\$400,000.00	\$601,300.00	Overall FCC Criteria Cost Analysis PDF. 1/3 cost Sutro Tower Repacking Estimate pkg PDF Spreadsheet line item 52 and 53	N/A	N/A

Structural engineering tower load study for a documented tower with candelabra	\$19,000.00	\$24,482.00	Overall FCC Criteria Cost Analysis PDF. 1/6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Sub-total	\$832,877.00	\$1,079,659.00	N/A	\$0.00	N/A
Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information

Outside Professional Services

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Outside Professional Services	\$770,351.00	\$744,436.37		\$0.00	
Attorney Fees - Aux Antenna, prepare and File Form 2100 Construction Permit or License Application	\$4,000.00	\$4,000.00	N/A	N/A	N/A
Environmental Assessment, if triggered by NEPA Section 106 review or for certain structures over 450 feet	\$10,000.00	\$0.00	N/A	N/A	N/A
Comprehensive coverage verification via field study, if needed	\$80,000.00	\$75,000.00	N/A	N/A	N/A
Medical Facilities DTV Notices	<i>\$7,668.00</i>	\$7,668.00	DTV Notification Quote ABC Stations 1/3 cost	N/A	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,000.00	\$0.00	N/A	N/A	N/A

Project management of the transition	\$75,000.00	\$75,000.00	Overall FCC Criteria Cost Analysis PDF. Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Neighborhood RF Survey	<i>\$3,333.00</i>	\$3,333.00	Overall FCC Criteria Cost Analysis PDF 1 /6 cost	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,000.00	\$3,000.00	N/A	N/A	N/A
Additional Field Engineering Service, 20 Days	<i>\$20,000.00</i>	\$20,000.00	06-29-17 Overall FCC Criteria Cost Analysis PDF	N/A	N/A
Architectural Plans	<i>\$51,369.00</i>	\$51,369.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Permit Public Relations	<i>\$19,108.00</i>	\$19,108.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

Project Management	<i>\$85,500.00</i>	\$85,500.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Building Permits	<i>\$183,333.00</i>	\$183,333.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Field Testing and Engineering	<i>\$75,000.00</i>	\$75,000.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Sutro Legal Fees	<i>\$8,333.00</i>	\$8,333.00	06-29-17 Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Update Architectural Plans	<i>\$4,671.00</i>	\$4,671.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

Alternate Site Study	<i>\$58,619.00</i>	\$58,619.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,500.00	\$1,500.00	06-29-17 Overall FCC Criteria Cost Analysis PDF	N/A	N/A
Prepare request for Special Temporary Authorization	\$1,500.00	\$1,500.00	Quote	N/A	N/A
Prepare and or review reimbursement form	\$2,500.00	\$14,252.37	See:KGO Legal Services Estimate to complete the repacking See: KGO Legal Services Invoice for repacking covering period through June 3	N/A	N/A
ASR modification (prepare FCC Form 854)	\$2,000.00	\$0.00	N/A	N/A	N/A
RF Exposure Measurements	\$20,000.00	\$3,333.00	06-29-17 Overall FCC Criteria Cost Analysis PDF 1 /6 cost	N/A	N/A

Legal Fees Multi Station Project Ctrl	<i>\$22,667.00</i>	\$22,667.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,250.00	\$2,250.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,500.00	\$3,500.00	N/A	N/A	N/A
RF Exposure Reports	<i>\$3,500.00</i>	\$3,500.00	Local RF exposure reports at Sutro	N/A	N/A
Perform engineering study for new channel assignment and antenna development	\$7,000.00	\$7,000.00	N/A	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, License to Cover Application	\$1,500.00	\$1,500.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,000.00	\$5,000.00	N/A	N/A	N/A
Address transition timing and coordination issues w/ other stations and wireless	\$2,500.00	\$2,500.00	06-29-17 Overall FCC Criteria Cost Analysis PDF	N/A	N/A
RF Consulting Engineer Fees- Aux Antenna: Prepare engineering section of FCC Form 2100, Construction Permit Application	\$2,000.00	\$2,000.00	06-29-17 Overall FCC Criteria Cost Analysis PDF	N/A	N/A
Sub-total	\$770,351.00	\$744,436.37	N/A	\$0.00	N/A
Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information

Other Expenses

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$609,604.00	\$606,272.00		\$0.00	
FCC Filing Fees - Special Temporary Authorization request	\$190.00	\$190.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,000.00	\$7,668.00	See DTVNotification Quote ABC Stations	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$325.00	\$325.00	N/A	N/A	N/A
Local Zoning	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Disposal	<i>\$8,333.00</i>	\$8,333.00	Overall FCC Criteria Cost Analysis PDF. 1 /3 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Special Inspection	<i>\$5,000.00</i>	\$5,000.00	Overall FCC Criteria Cost Analysis PDF. 1 /3 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
BLM or NFS Coordination	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A

RF Switch gear	<i>\$40,000.00</i>	\$40,000.00	Switch gear associated with channel 12	N/A	N/A
Disposal Costs (for equipment and other waste, net of any salvage value)	<i>\$16,442.00</i>	\$16,442.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Equipment Delivery and Handling Charges	<i>\$52,833.00</i>	\$52,833.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Develop and air announcement of upcoming channel change	<i>\$10,000.00</i>	\$10,000.00	On Air time to promote channel changes	N/A	N/A
Fork Lift Rental	<i>\$25,636.00</i>	\$25,636.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
KFOG-FM Equipment	<i>\$12,704.00</i>	\$12,704.00	Overall FCC Criteria Cost Analysis PDF. 1 /3 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

KFOG-FM Relocation	<i>\$42,000.00</i>	\$42,000.00	Overall FCC Criteria Cost Analysis PDF. 1 /3 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
KFOG-FM Testing	<i>\$8,333.00</i>	\$8,333.00	Overall FCC Criteria Cost Analysis PDF. 1 /3 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Post Assignmnet Antenna Studies	<i>\$15,563.00</i>	\$15,563.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Preliminary TL Parts List	<i>\$4,250.00</i>	\$4,250.00	Overall FCC Criteria Cost Analysis PDF. 1 /6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
Sales Tax	<i>\$249,800.00</i>	\$249,800.00	Local Sales Tax and Two Transmitters Overall FCC Criteria Cost Analysis PDF. 1 /6 cost. Two transmitters are KGO only Sutro Tower Repacking Estimate pkg PDF	N/A	N/A

VSWR Monitoring	<i>\$96,125.00</i>	\$96,125.00	Overall FCC Criteria Cost Analysis PDF. 1/6 cost Sutro Tower Repacking Estimate pkg PDF	N/A	N/A
MVPD Notification of Channel Change	<i>\$0.00</i>	\$0.00	Do not anticipate seeking reimbursement for this expense at this time.	N/A	N/A
Non-zoning permits	<i>\$0.00</i>	\$0.00	N/A	N/A	N/A
Equipment Storage	<i>\$10,000.00</i>	\$10,000.00	Transmitter storage for 30 months at 300 /month	N/A	N/A
FCC Filing Fees - Form 2100 minor change CP application	\$1,070.00	\$1,070.00	N/A	N/A	N/A
Sub-total	\$609,604.00	\$606,272.00	N/A	\$0.00	N/A
Total for all systems	\$6,018,278.00	\$6,252,708.56	N/A	\$0.00	N/A

Components

Information not provided.

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$6,018,278.00	\$6,252,708.56	\$0.00

Construction Status	Question	Response
	Is construction complete?	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	<p>WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.</p>	
		<ol style="list-style-type: none"> 1. The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 2. The above-named entity acknowledges that all certifications and attached documentation are considered material representations. 3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount. 	

4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
5. The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

<p>8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.</p>	
<p>I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.</p>	<p>John W Zucker <i>Assistant Secretary</i></p> <p>07/07/2017</p>

Attachments